

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530568

Luminaire Tested: **GALN-SA5D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34958 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

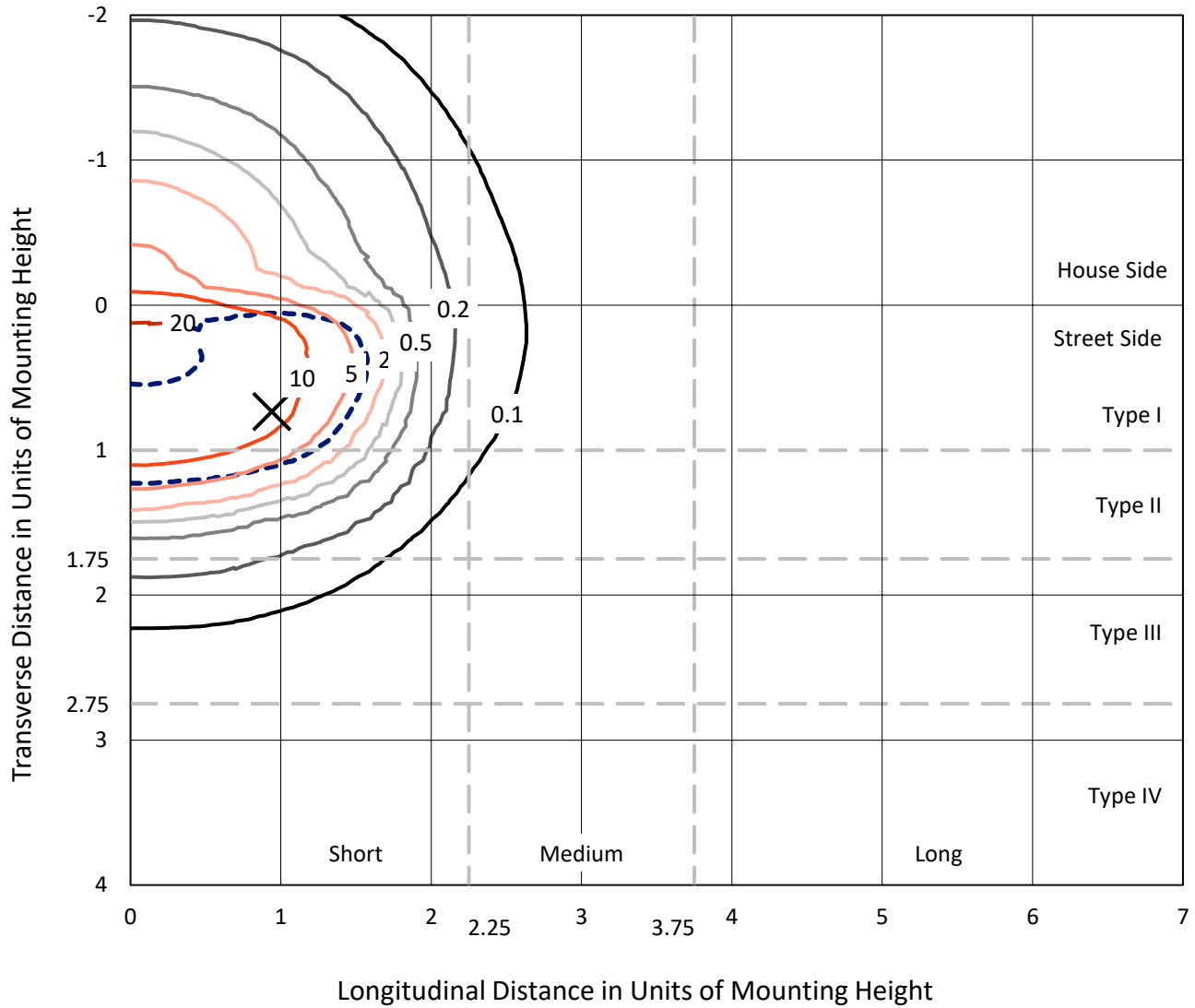
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

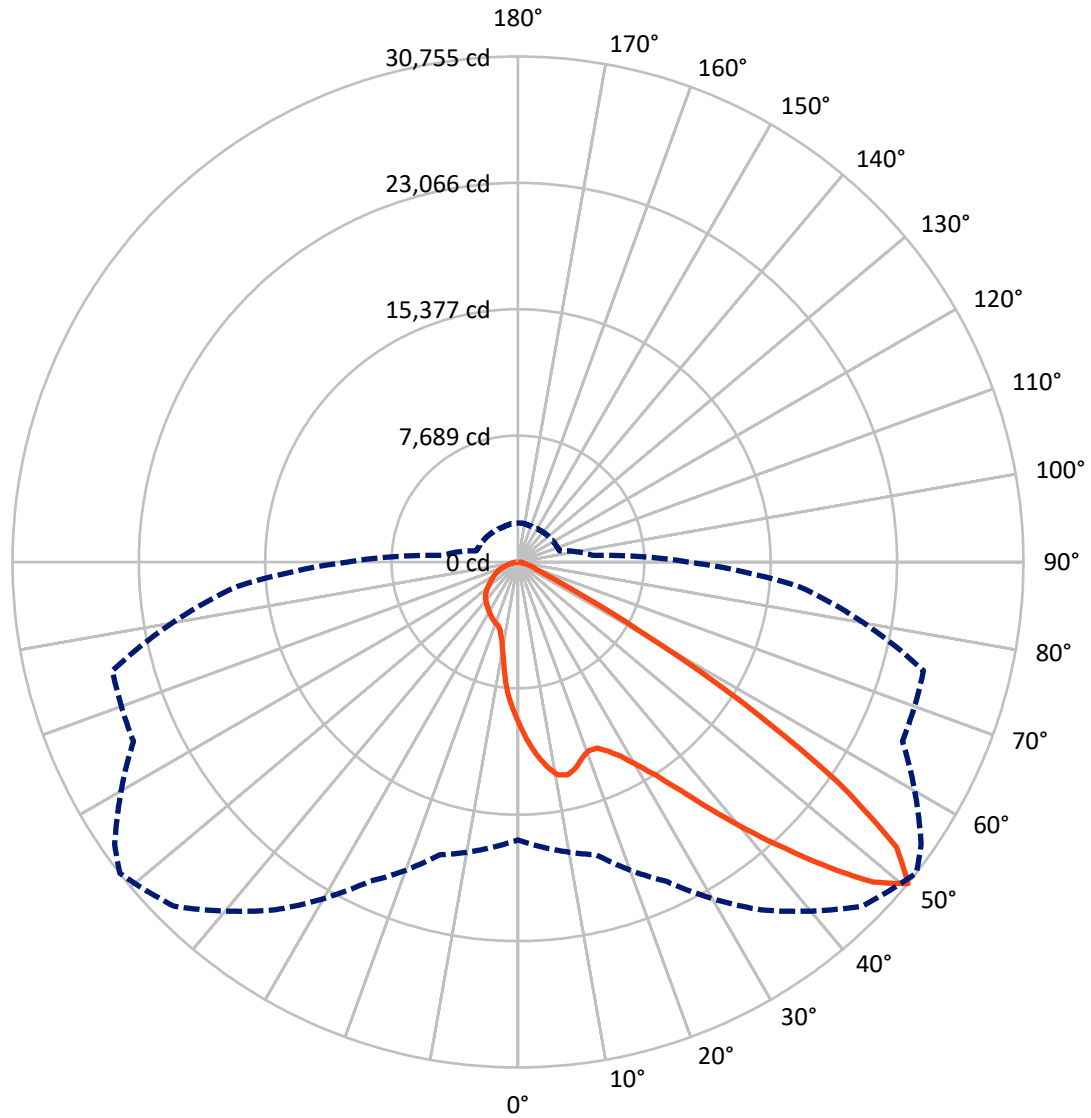
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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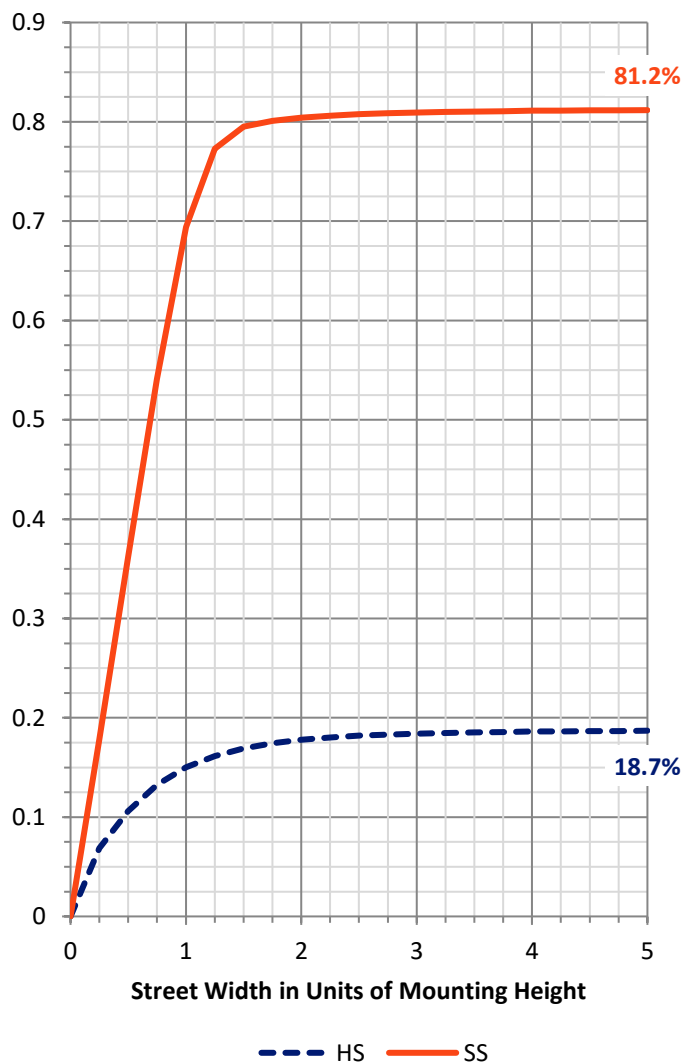
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6571.3	0.0	6571.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28386.7	0.0	28386.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	34958.0	0.0	34958.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	908.3	2.6
10°-20°	2434.3	7.0
20°-30°	4100.5	11.7
30°-40°	6881.0	19.7
40°-50°	10526.3	30.1
50°-60°	7674.5	22.0
60°-70°	1708.0	4.9
70°-80°	616.0	1.8
80°-90°	109.0	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34958.0	100.0
0°-180°	34958.0	100.0

**Coefficient of Utilization**



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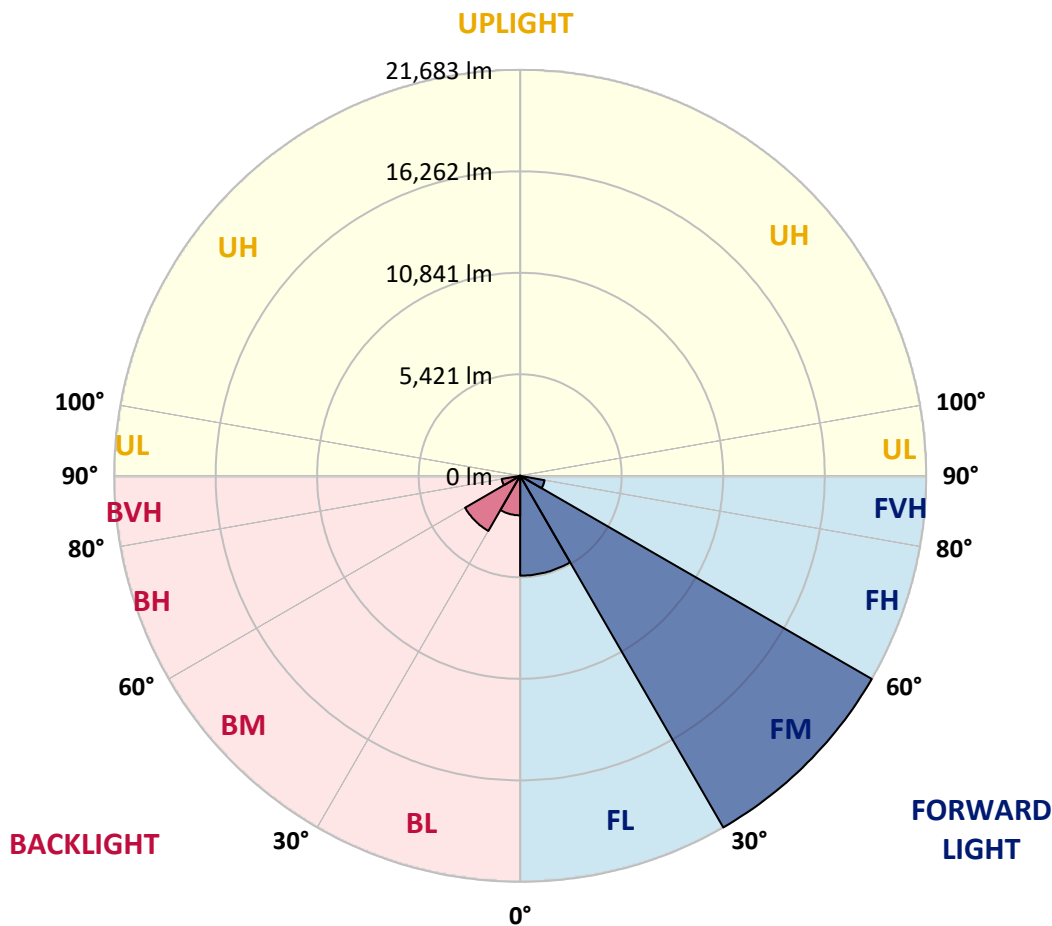
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5332.3	15.3			
FM (30°-60°)	21682.7	62.0			
FH (60°-80°)	1322.8	3.8			G1/1800
FVH (80°-90°)	48.9	0.1			G1/100
BL (0°-30°)	2110.8	6.0	B3/2500		
BM (30°-60°)	3399.1	9.7	B3/5000		
BH (60°-80°)	1001.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	60.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1
2.5°	11602.5	11379.2	11404.4	11244.4	11071.6	11021.1	10844.1	10675.6	10549.2	10279.6	10031.0
5°	12681.0	12613.6	12512.4	12386.1	12255.5	11935.3	11754.1	11543.5	11080.0	10663.0	10250.1
7.5°	12836.8	12824.2	12879.0	12879.0	12925.3	12803.1	12546.2	12398.7	11905.8	11227.5	10460.7
10°	11741.5	11779.4	12044.8	12390.3	12870.5	13203.4	13161.2	13123.3	12584.1	11657.2	10709.3
12.5°	10869.4	10785.1	10941.0	11235.9	11956.3	12761.0	13304.5	13308.7	13169.7	12343.9	10890.5
15°	10376.5	10435.5	10477.6	10616.6	11160.1	12091.2	13047.5	13329.8	13940.6	12828.4	11176.9
17.5°	10692.5	10494.4	10486.0	10519.7	10797.8	11497.1	12571.4	13055.9	14361.9	13451.9	11530.8
20°	11105.3	11101.1	10983.2	10941.0	10936.8	11560.3	12259.7	12916.9	14585.2	14260.8	11888.9
22.5°	11830.0	11830.0	11636.2	11543.5	11345.5	11855.2	12301.8	12748.4	14956.0	14816.9	12061.7
25°	13043.3	12845.3	12512.4	12285.0	12171.2	12352.4	12748.4	13148.6	15280.4	15406.7	12419.8
27.5°	14163.9	13852.2	13687.9	13296.1	13144.4	13039.1	13401.4	13805.8	15659.5	16325.2	12613.6
30°	15436.2	15381.5	15086.6	14581.0	14206.1	14012.3	14345.1	14745.3	16354.7	17264.7	13060.1
32.5°	17711.2	17214.1	16813.9	16194.6	15583.7	15170.8	15499.4	15764.8	17509.0	18246.3	13548.8
35°	20167.4	20007.3	19316.4	18199.9	17264.7	16893.9	17087.7	17285.7	18852.9	19746.1	14370.4
37.5°	22581.4	22362.3	21793.6	20854.1	19716.6	18962.5	19101.5	19333.2	20361.2	21768.3	15373.0
40°	24317.1	24047.5	23761.0	23622.0	22492.9	21460.7	21380.7	21439.7	22400.2	23664.1	16485.3
42.5°	24443.5	24776.3	24864.8	25425.1	25159.7	24312.9	23820.0	23832.6	24346.6	25538.9	17610.1
45°	24178.1	23870.6	24523.6	26052.9	26929.2	27325.2	26495.2	26389.9	25551.5	26625.8	18170.4
47.5°	21393.3	21477.6	22581.4	24999.6	27531.6	29301.0	29107.2	28757.6	26196.1	26587.9	18082.0
50°	16910.8	17420.5	18444.3	21456.5	25846.4	29612.8	30754.5	29945.6	25812.7	25543.1	17180.4
52.5°	11261.2	11471.9	12145.9	16034.5	20782.5	26469.9	28858.7	29044.0	25458.8	24173.9	16038.7
55°	5013.4	4996.6	5944.5	8375.3	13039.1	20142.1	23579.9	24708.9	24098.1	22779.4	14926.5
57.5°	2123.3	2194.9	2582.5	3618.9	6412.1	12154.3	15975.5	16965.5	18532.7	18705.5	11450.8
60°	1436.6	1445.0	1550.4	1811.6	2683.6	5708.5	8379.5	9567.6	10688.2	10612.4	6075.1
62.5°	1129.1	1158.6	1238.6	1343.9	1592.5	2591.0	3749.5	4411.0	4482.6	3770.6	2304.5
65°	964.8	969.0	1049.0	1137.5	1247.0	1508.2	1807.4	1841.1	1862.1	1794.7	1693.6
67.5°	796.2	804.7	867.9	969.0	1070.1	1154.3	1238.6	1280.7	1377.6	1567.2	1541.9
70°	631.9	644.6	699.3	783.6	876.3	926.8	1032.2	1070.1	1158.6	1306.0	1365.0
72.5°	480.3	484.5	530.8	589.8	674.1	724.6	813.1	855.2	914.2	1040.6	1095.4
75°	345.5	358.1	391.8	421.3	433.9	467.6	551.9	598.2	682.5	737.3	741.5
77.5°	181.2	189.6	198.0	198.0	240.1	303.3	358.1	383.4	442.4	484.5	463.4
80°	71.6	75.8	96.9	130.6	168.5	219.1	257.0	269.6	320.2	345.5	358.1
82.5°	42.1	46.3	63.2	92.7	122.2	155.9	185.4	198.0	231.7	261.2	269.6
85°	21.1	25.3	37.9	59.0	80.0	96.9	92.7	88.5	88.5	84.3	88.5
87.5°	8.4	8.4	12.6	12.6	12.6	16.9	21.1	21.1	21.1	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1
2.5°	9866.7	9698.2	9542.3	9255.8	8944.1	8855.6	8493.3	8362.7	8270.0	8160.5	8126.8
5°	9917.3	9694.0	9192.6	8615.5	8156.3	7566.5	7178.9	6761.8	6458.4	6382.6	6361.5
7.5°	10022.6	9639.2	8775.6	7903.5	6964.0	6163.5	5552.7	5224.1	4933.4	4916.5	4887.0
10°	10140.6	9474.9	8320.6	6951.4	5750.7	5009.2	4642.7	4499.4	4427.8	4411.0	4402.5
12.5°	10237.5	9441.2	7810.8	6024.5	4891.2	4444.7	4335.1	4322.5	4352.0	4360.4	4377.3
15°	10279.6	9306.4	7195.7	5194.6	4356.2	4191.9	4238.2	4288.8	4309.8	4364.6	4322.5
17.5°	10359.6	9133.7	6437.4	4537.3	4057.1	4086.6	4166.6	4225.6	4259.3	4297.2	4242.4
20°	10401.8	8977.8	5725.4	4145.5	3951.7	4006.5	4116.0	4162.4	4204.5	4221.4	4158.2
22.5°	10363.8	8657.6	5097.7	3829.6	3850.6	3922.3	4019.2	4069.7	4044.4	3977.0	3939.1
25°	10262.7	8206.8	4444.7	3627.3	3707.4	3833.8	3909.6	3871.7	3825.4	3787.4	3774.8
27.5°	10258.5	7654.9	3972.8	3442.0	3585.2	3757.9	3732.7	3699.0	3720.0	3690.5	3656.8
30°	10279.6	7119.9	3585.2	3336.7	3496.7	3581.0	3610.5	3576.8	3602.1	3547.3	3564.2
32.5°	10170.1	6597.5	3332.4	3214.5	3391.4	3387.2	3484.1	3509.4	3450.4	3336.7	3353.5
35°	10216.4	6176.2	3117.6	3159.7	3273.5	3273.5	3349.3	3319.8	3163.9	3096.5	3113.4
37.5°	10536.6	5763.3	3012.3	3083.9	3159.7	3193.4	3168.1	3041.7	3003.8	3003.8	3012.3
40°	10839.9	5409.4	2949.1	3067.0	3054.4	3075.5	2890.1	2902.7	2902.7	2906.9	2885.9
42.5°	11109.5	5169.3	2898.5	2965.9	2987.0	2877.4	2763.7	2751.1	2780.5	2776.3	2759.5
45°	11206.4	4971.3	2826.9	2852.2	2869.0	2687.9	2633.1	2607.8	2641.5	2654.2	2671.0
47.5°	10835.7	4807.0	2746.8	2696.3	2662.6	2544.6	2473.0	2426.7	2468.8	2540.4	2557.3
50°	10359.6	4592.1	2620.5	2523.6	2451.9	2401.4	2350.8	2304.5	2334.0	2384.5	2371.9
52.5°	9656.1	4255.1	2460.4	2359.2	2237.1	2249.7	2203.4	2178.1	2194.9	2194.9	2182.3
55°	8653.4	3496.7	2190.7	2119.1	2018.0	2051.7	2060.1	2026.4	1992.7	2022.2	1996.9
57.5°	5906.6	2468.8	1954.8	1954.8	1853.7	1900.0	1895.8	1815.8	1735.7	1744.2	1727.3
60°	3416.7	1967.4	1803.1	1786.3	1681.0	1718.9	1727.3	1672.5	1550.4	1558.8	1541.9
62.5°	1942.2	1681.0	1575.6	1550.4	1529.3	1563.0	1563.0	1491.4	1386.1	1394.5	1377.6
65°	1651.5	1558.8	1407.1	1402.9	1394.5	1402.9	1369.2	1293.4	1200.7	1162.8	1167.0
67.5°	1499.8	1440.8	1293.4	1255.5	1230.2	1226.0	1162.8	1091.2	1049.0	1015.3	1011.1
70°	1314.4	1268.1	1158.6	1108.0	1082.7	1023.7	960.6	914.2	855.2	838.4	855.2
72.5°	1040.6	1036.4	994.3	939.5	884.7	838.4	783.6	720.4	665.6	653.0	623.5
75°	720.4	728.8	737.3	728.8	682.5	623.5	560.3	509.8	442.4	404.4	396.0
77.5°	471.8	484.5	497.1	480.3	450.8	396.0	353.9	290.7	240.1	210.6	206.4
80°	345.5	362.3	370.7	358.1	324.4	282.3	235.9	185.4	147.5	122.2	122.2
82.5°	265.4	282.3	290.7	269.6	235.9	202.2	168.5	130.6	101.1	80.0	75.8
85°	92.7	88.5	105.3	109.5	130.6	122.2	101.1	75.8	59.0	42.1	37.9
87.5°	25.3	25.3	29.5	29.5	25.3	21.1	21.1	21.1	16.9	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)